1 The Moon & Seasons Test Review Equinox -- Day on which the sun shines Most direct on the equator orthern Hemisphere -- The part of the Earth that is North of the equator Southern Hemisphere -- The part of the Earth that is South of the equator from the Sun Spring Tides – The sun, the moon and the Earth are in a Neap Tides – The sun and the moon form a right with the Earth. Questions and answers from the study guide in completed in class. 1. What is the motion of the Earth around the Sun Called? - Yevo ution 2. The Earth 10+0+65 on its axis which takes about 24 hours. 3. What causes the seasons? - tilt of earth and revolution around the sun. 4. The date when the earth is most tilted toward the sun in the Northern Hemisphere is June 21 5. The area south of the equator is called the <u>Southern hemisphere</u> 6. The imaginary line that runs through the earth is its (X)S 7. The season, in the northern hemisphere, when the tilt is pointed away from the sun? Winter 8. The season, in the southern hemisphere, when the tilt is pointed away from the sun?- Winter 9. When does the northern hemisphere experience the fall equinox? - Sept. 21 10. What gives us night and day? - Yototion on our axis 11. The earth completes one revolution around the sun in 365 days - 400 12. In what season does the northern hemisphere experience less day light hours? Wint 13. The earth's longest day of the year in the northern hemisphere is during the __Summer 14. What 2 seasons start with equal numbers of daylight and night hours in both hemispheres? --Sprina and fall 15. The changes of the moon's appearance from earth is known as Phases of the moon. 16. Wanna is when the moon is decreasing in its refection of light. 17. The phase of moon in which 2/3 of the moon is lit and increasing -- Waxina aibbous 18. The sun appears to travel from east to west in the sky 19. The same side of them moon is always facing the earth because rotation and revolution are equal.

20. A crescent moon appears when less than 1/2. of the moon is illuminated. 21. The phase of moon when no reflected light is visible from earth is called a **New** moon 22. What phase of moon occurs after a full moon? - Waning gibbous 23. Spring tides are: high high high and happen during Full moon Low - Low tides 24. Neap tides are: Low kigh tides + high and happen during | Quark 3d Quarmoon phases.

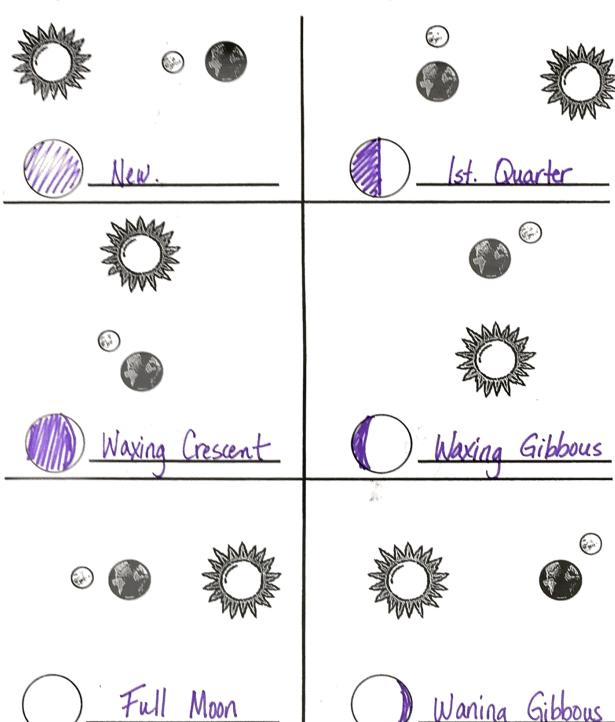
25. The moon does not create its own light...it reflects the Sun's rays. 26. Indirect haht rays are weaker and spread out more. 27. Direct light rays are strong and hit the earth straight on. 28. What is the number angle of the earth's tilt? - 23.5° 29. What are the temperatures like on and around the equator? – 🛕 🗓 🕮 30. Rotation of the earth takes: 24 hours 31. What is it called when half of the moon is lit and visible from earth? - quarter Moons 32. What is it called when the moon is increasing in reflected light and showing 2/3 lit? -Waxing albbous 33. The moons obtation and revolution take 28 days 34. Why is the moon visible in the night sky? - Sun reflects light off it. It reflects
35. The earth's orbit is elipse or like the shape of an oval. the sun light. 35. The earth's orbit is elipse 36. Everyday there are _____ high tides and _____ low tides.

NAME:	
141.4144	

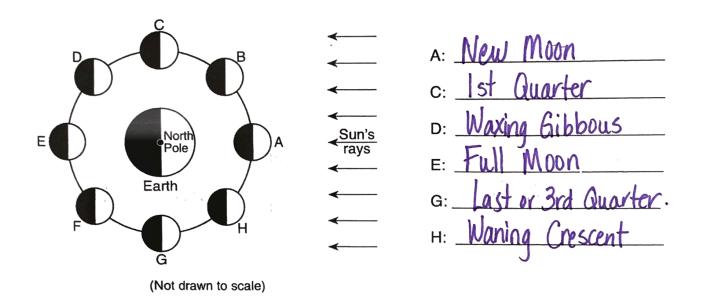
Date:____

MOON PHASES

In the blank circle, draw the moon phase we would see if we were on Earth in the diagram and then write the name of that moon phase on the blank line



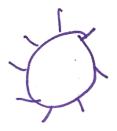
Use the diagram below to fill in the name of the moon phases for the position indicated by the letter



In the space below, draw a diagram with the Sun on the right, so that if we were on Earth we would see a waning crescent moon.



In the space below, draw a diagram with the sun on the left, so that if we were on Earth we would see a waxing quarter moon.





THE LONG AND SHORT OF IT

Study Figure B. Answer the questions or fill in the blanks.

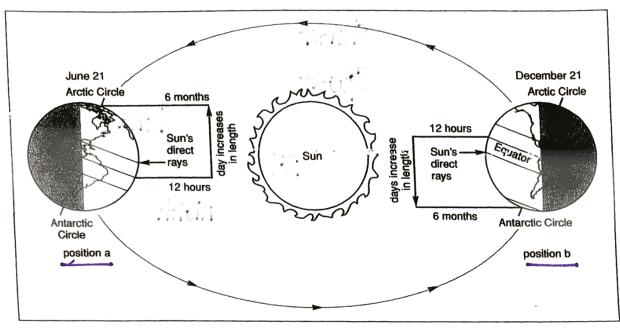


Figure B

Position a shows the Earth on June 21.

Position b shows the Earth six months later on December 21. It has now come halfway along its revolution around the sun.

- 1. Look at the Earth's axis on both dates. Has the angle of its tilt compared to the sun changed? Same angle No change
- 2. Has the direction of the tilt compared to the sun changed? Yes one tilt toward One tilted away

JUNE 21

On June 21, the North Pole points directly toward the sun. This day in the Northern Hemisphere is the summer solstice [SOHL-stis]. On this day the north pole has 24 hours of sunlight.

- On June 21, the Northern, Southern Southern Hemisphere tilts toward the sun.
 On June 21, the Northern Northern Northern Northern Northern Northern Hemisphere has more hours of sunlight.
- 4. On June 21, the Northern, Southern Hemisphere has fewer hours of sunlight.

5	One June 21, days are longer in the Northern Hemisphere.
٥.	Northern, Southern
6.	If days in the Northern Hemisphere are longer, then days in the Southern
	Hemisphere are Snorter
7.	On June 21, the has 12 hours of day and 12 hours of night.
8.	As you move farther north, the days become
9.	On June 21, there are hours of daylight in the Arctic Circle.
10.	When it is day at the Arctic Circle, it is <u>night</u> at the Antarctic Circle.
DE	ECEMBER 21
On He	December 21, the North Pole points away from the sun. This day in the Northern misphere is the winter solstice. On this day, the North Pole has 24 hours of darkness.
1.	On December 21, the Southern Hemisphere leans toward the sun.
2.	On December 21, the Northern Southern Hemisphere leans away from the sun.
3.	On December 21, the Hemisphere has more hours of sunlight.
4.	On December 21, the Northern Southern Hemisphere has fewer hours of sunlight.
5.	On December 21, days are longer in the Hemisphere.
6.	If days in the Southern Hemisphere are longer, then days in the Northern
	Hemisphere are
7.	On December 21, the has 12 hours of day and 12 hours of night.
8.	The length of day and night seem to change at the equator.
9.	On December 21, there are hours of daylight in the Antarctic Ci
10.	When it is day at the Antarctic Circle it is at the Arctic Circle

EQUINOXES

For most of the year, the number of hours of day and night in the Northern and Southern Hemispheres are unequal.

On just two days of the year, every place on Earth has an equal number of hours of day and night.

On March 21 and September 23, neither hemisphere leans toward the sun. On these days, every place on Earth has 12 hours of daylight and 12 hours of darkness.

March 21 and September 23 are called equinoxes [EE-kwuh-nahks-ez]

Figure C shows the Earth during one revolution around the sun. Study Figure C. Then answer the questions or fill in the blanks.

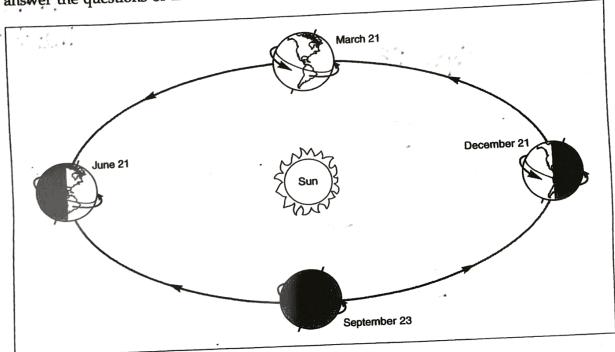


Figure C

on its axis. The Earth

around the sun. The Earth rotates, revolves

3. One rotation makes one

4. One revolution makes one

5. Look at the Earth's axis on each date.

a) Has the angle changed?

b) Has the axis changed the way it leans toward or away from the sun?

NAME THE DATES

1.	The Northern Hemisphere leans toward the sun most on June 2.
2.	The Northern Hemisphere leans away from the sun most on Dec. 21.
3.	The Earth's axis does not lean toward nor away from the sun on March 2 and Sept. 23.
4.	
5.	
6.	Day and night are equal in length everywhere on Earth on March 21 and Sept. 23.
7.	In the Northern Hemisphere, between June 21 and September 23, days become
	longer shorter .
8.	In the Northern Hemisphere, between September 23 and December 21, days
	become
9.	In the Northern Hemisphere, between December 21 and March 21, days become
	longer shorter
10.	In the Northern Hemisphere, between March 21 and June 21, days become
	longer shorter ·
11.	Differences in the number of hours of day and night happen
12.	In which hemisphere do you live? Northern
13.	What is today's date? Feb.
14.	On this date, where you live, there will be more hours of
15.	Tomorrow, day will last a few minutes and night will last a few
	minutes and night will last a fev-